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UNITED STATES DEPARTMENT OF AGRICULTURE  
STATES RELATIONS SERVICE  
A. C. TRUE, DIRECTOR

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LIST OF STATION PUBLICATIONS  
RECEIVED BY THE OFFICE OF EXPERIMENT STATIONS DURING  
JANUARY, 1921.

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Thirtieth Annual Report, 1919. (Arizona Sta. Rpt. 1919, pp. 397-463, figs. 4.)

Brown Rot of Apricots. By W.L. Howard and W.T. Horne. (California Sta. Bul. 326, pp. 71-88, figs. 6.)

The Pear Thrips. By E.O. Essig. (California Sta. Circ. 223, pp. 9, figs. 3.)

Control of the Brown Apricot Scale and the Italian Pear Scale on Deciduous Fruit Trees. By E.O. Essig. (California Sta. Circ. 224, pp. 11, figs. 5.)

Propagation of Vines. By F.T. Bioletti. (California Sta. Circ. 225, pp. 4.)

Protection of Vineyards from Phylloxera. By F.T. Bioletti. (California Sta. Circ. 226, pp. 4.)

Forty-second Annual Report, 1918. (Connecticut State Sta. Rpt. 1918, pp. XIX - 461-479.)

Factors in Incubation, II. By G.H. Lemson, Jr. and L.E. Card. (Connecticut Storrs Sta. Bul. 105, pp. 3-35.)

Fertilizers for Potatoes. By W.L. Slate, Jr. and B.A. Brown. (Connecticut Storrs Sta. Bul. 106, pp. 39-48.)

Fertilizing the Irish Potato Crop. By B.F. Floyd and R.W. Ruprecht. (Florida Sta. Bul. 158, pp. 3-28, figs. 2.)

Para and Paspalum Grasses. By G. Briggs. (Guam Sta. Circ. 1, pp. 3-10.)

Steer Feeding Experiments. By J.E. Nordby. (Idaho Sta. Circ. 15, pp. 4.)

Commercial Fertilizers. By H.E. Curtis, W. Rodes, and H.R. Allen. (Kentucky Sta. Bul. 224, pp. 259-372.)

Chemical Composition of Some Louisiana Soils as to Series and Texture. By S.S. Walker. (Louisiana Sta. Bul. 177, pp. 3-27, figs. 4.)

Methods of Applying Manure. By W.P. Brocks. (Massachusetts Sta. Bul. 196, pp. 39-60, pl. 1, fig. 1.)

Nutritive Value of Cattle Feeds.--I, Velvet Bean Feed for Farm Stock. By J.B. Lindsey and C.L. Beals. (Massachusetts Sta. Bul. 197, pp. 61-74.)



- Inspection of Commercial Feedstuffs. By F.H. Smith and E.M. Bradley. (Massachusetts Sta. Bul. 13, Control Series, pp. 3-27.)
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- Soil Fertility. By M.M. McCool, C.E. Millar, and G.M. Grantham. (Michigan Sta. Pop. Bul. 290, pp. 3-39, figs. 15.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul. 3(1920), No. 2, pp. 37-72, figs. 11.)
- Thirty-second Annual Report, 1918-19. (Michigan Sta. Rpt. 1919, pp. 227-734, figs. 132.)
- Investigations in Beef Production. By T.L. Haecker. (Minnesota Sta. Bul. 193, pp. 5-110, pl. 1, figs. 10.)
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- The Mangum Terrace. By E.W. Lehmann and F.L. Duley. (Missouri Sta. Circ. 98, pp. 8, figs. 6.)
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- Earliness and Rustiness of Spring Wheats. By H.L. Walster. (North Dakota Sta. Bul. 143, pp. 8, fig. 1.)
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The Webspinning Sawfly of Plums and Sandcherries. By H.C. Severin. (South Dakota Sta. Bul. 190, pp. 221-251, figs. 13.)

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The Fertilization of Apple Orchards. By W.H. Alderman and H.L. Crane. (West Virginia Sta. Bul. 174, pp. 51, figs. 12.)

Experiments in Fertilizing Apple Orchards. By C.E. Stockdale. (West Virginia Sta. Circ. 31, pp. 4, figs. 2.)

Clear More Land. By J. Swenhardt. (Wisconsin Sta. Bul. 320, pp. 27, figs. 19.)

Marketing by Federations. By T. Macklin. (Wisconsin Sta. Bul. 322, pp. 24, figs. 6.)

Fusarium Resistant Cabbage. By L.R. Jones, J.C. Walker, and W.B. Tisdale. (Wisconsin Sta. Res. Bul. 48, pp. 3-34, figs. 9.)

Influence of Rations Restricted to the Oat Plant on Reproduction in Cattle. By E.B. Hart, H. Steenbock, and G.C. Humphrey. (Wisconsin Sta. Res. Bul. 49, pp. 3-22, pls. 8.)

*This has been looked over by Mr. B*  
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Fertilizer Report for 1920. By E.H. Jenkins and E.M. Bailey. (Connecticut State Sta. Bul. 223, pp. 66.)

Report of the Guam Agricultural Experiment Station, 1919. (Guam Sta. Rpt. 1919, pp. 52, pls. 7.)

The Illinois System of Permanent Soil Fertility as Developed by Cyril G. Hopkins. By R. Stewart. (Illinois Sta. Circ. 245, pp. 20, figs. 5.)

Thirty-second Annual Report, 1919. By E. Davenport. (Illinois Sta. Rpt. 1919, pp. 20.)

Stallion Enrollment, IX. By R.B. Cooley. (Indiana Sta. Circ. 99, pp. 80.)

Thirty-third Annual Report, 1920. (Indiana Sta. Rpt. 1920, pp. 59, figs. 5.)

Filing Agricultural Bulletins and Circulars. By H. Durham. (Kansas Sta. Circ. 85, pp. 13, figs. 3.)

Cattle Feeding Investigations, 1919-20. By C.W. McCampbell and H.B. Winchester. (Kansas Sta. Circ. 86, pp. 11, fig. 1.)

Eggplant Blight. By C.W. Edgerton and C.C. Moreland. (Louisiana Sta. Bul. 178, pp. 44, figs. 18.)

Studies of Cranberries During Storage. By F.W. Morse, C.P. Jones, B.A. Rudolph, and H.J. Franklin. (Massachusetts Sta. Bul. 198, pp. 75-92, figs. 3.)

Broodiness in Domestic Fowl.--Data Concerning Its Inheritance in the Rhode Island Red Breed. By H.D. Goodale, R. Sanborn, and D. White. (Massachusetts Sta. Bul. 199, pp. 93-116, figs. 4.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and H.W. Poole. (Massachusetts Sta. Met. Bul. 335, pp. 4.)

Studies in Infectious Abortion. By H.J. Stafseth and I.F. Huddleson. (Michigan Sta. Tech. Bul. 49, pp. 30, figs. 4.)

The European Corn Borer.--Let's Try to Keep Them Out. They Are Already Close to Michigan. By R.H. Pettit. (Michigan Sta. Circ. Bul. 44, pp. 3, figs. 4.)





- Experiments with Corn at the Holly Springs Branch Experiment Station. By C.T. Ames. (Mississippi Sta. Bul. 189, pp. 8.)
- Influence of Capital on Farm Organization.--I, In a Live Stock Section. By O.R. Johnson and R.M. Green. (Missouri Sta. Bul. 175, pp. 3-20, figs. 14.)
- Nursery and Orchard Insect Pests. (Missouri Sta. Bul. 176, pp. 35, figs. 31.)
- An investigation of the Dipping and Fumigation of Nursery Stock. By K.C. Sullivan. (Missouri Sta. Bul. 177, pp. 36, figs. 6.)
- Federal and State Laws Regulating the Propagation and Distribution of Nursery Stock. By L. Haseman. (Missouri Sta. Circ. 99, pp. 24.)
- Cost of Producing Wheat and Oats in Missouri, 1920. By O.R. Johnson. (Missouri Sta. Circ. 100, pp. 4.)
- Varietal Resistance and Susceptibility of Oats to Powdery Mildew, Crown Rust, and Smuts. By G.M. Reed. (Missouri Sta. Res. Bul. 37, pp. 3-41, pls. 4.)
- Final Estimate of the 1920 Apple Crop. By J.R. Duncan. (Missouri Fruit Sta. Fruit News Notes 5, pp. 8.)
- Commercial Apple Varieties. By J. Oskamp. (Missouri Fruit Sta. Fruit News Notes 6, pp. 4.)
- Propagation and Planting of Fruits. By J. Oskamp. (Missouri Fruit Sta. Fruit News Notes 7, pp. 8.)
- The Home Orchard. By O.B. Whipple. (Montana Sta. Circ. 92, pp. 27, figs. 11.)
- The Bull and the Treadmill. By O. Tretsvén and H.E. Murdock. (Montana Sta. Circ. 93, pp. 7, figs. 5.)
- Our Present Knowledge of the Pale Western Cutworm. By J.R. Parker, A.L. Strand, and H.L. Seamans. (Montana Sta. Circ. 94, pp. 8, figs. 2.)
- The Narrow-leaved Milkweed (*Asclepias Mexicana*) and The Broad-Leaved or Showy Milkweed (*Asclepias speciosa*).--Plants Poisonous to Live Stock in Nevada. By C.R. Fleming, N.F. Peterson, M.R. Miller, L.R. Vawter, and L.H. Wright. (Nevada Sta. Bul. 99, pp. 32, figs. 10.)
- An Economic Study of Farm Layout. By W.I. Myers. (New York Cornell Sta. Mem. 34, pp. 383-563, figs. 94.)
- Some Effects of Potassium Salts on Soils. By R.S. Smith. (New York Cornell Sta. Mem. 35, pp. 565-605, figs. 3.)
- Resistance of the Roots of Some Fruit Species to Low Temperature. By D.B. Carrick. (New York Cornell Sta. Mem. 36, pp. 607-661, fig. 1.)
- Thirty-third Annual Report, 1920. (New York State Sta. Rpt. 1920, pp. 79 - [4].)

- Western North Carolina Apple Show. (North Carolina Sta. Farmers' Market Bul., 7 (1920), No. 38, pp. 12.)
- Tobacco Growers Organize. (North Carolina Sta. Farmers' Market Bul., 8(1921), No. 42, pp. 10.)
- Selling by Guess Seldom Profitable for the Farmer. (North Carolina Sta. Farmers' Market Bul., 8(1921), No. 43, pp. 8.)
- Cost of Producing Wheat and Other Crops in North Dakota in 1920. By R.E. Willard, H. Metzger, and E. Skeem. (North Dakota Sta. Bul. 144, pp. 16.)
- Monthly Bulletins of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Buls., 5(1920), Nos. 11, 12, pp. 273-303, figs. 10; 6(1921), Nos. 1, 2, pp. 32, figs. 15.)
- Third Crop Pest and Horticultural Report, 1915-1920. (Oregon Sta. Rpt. 1915-1920, pp. 3-205, figs. 71.)
- Biennial Report Oregon Soil Investigations, 1918-1920. (Oregon Sta. Rpt. 1918-1920, pp. 46, figs. 34.)
- Director's Report, 1918-1920. (Oregon Sta. Rpt. 1918-1920, pp. 80.)
- Poultry Keeping in Porto Rico. By H.C. Henricksen. (Porto Rico Sta. Circ. 19, pp. 22, figs. 24.)
- Commercial Feeding Stuffs. By F.D. Fuller, S.D. Pearce, and G.S. Fraps. (Texas Sta. Bul. 262, pp. 333, figs. 2.)
- Commercial-Sulphur Products as Dormant Sprays for Control of the San Jose Scale. By M.C. Tanquary and M.E. Hays. (Texas Sta. Circ. 24, pp. 7, figs. 2.)
- The Texas Feed Law Requirements and Administration. By F.D. Fuller. (Texas Sta. Cont. Circ. F, pp. 20, figs. 2.)
- Thirty-second Annual Report, 1919. (Texas Sta. Rpt. 1919, pp. 3-28.)
- Feeding Work Horses. By W.E. Carroll. (Utah Sta. Circ. 43, pp. 18, fig. 1.)
- Thirtieth Annual Report, 1920. (Washington Sta. Bul. 153, pp. 47.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Mo. Bul., 8(1921), No. 11, pp. 165-180, figs. 34.)
- New Farm Facts. By H.L. Russell and F.B. Morrison. (Wisconsin Sta. Bul. 323, pp. 98, figs. 38.)



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Poisoning the Boll Weevil. By W.E. Hinds and F.L. Thomas. (Alabama Sta. Bul. 212, pp. 53-84, fig. 1.)

Summary of Investigations on Effect of Tile Drains in the Lime or Prairie Section of Alabama. By L.A. Jones. (Alabama Sta. Bul. 214, pp. 97-106, figs. 2.)

Annual Report of the Director of the Experiment Station on Work Done Under the Local Experiment Law in 1920. By J.F. Duggar. (Alabama Sta. Circ. 44, pp. 28.)

Commercial Fertilizers, 1919-20. By W.H. Dore. (California Sta. Bul. 327, pp. 93-127.)

A Plan for Reclaiming and Peopling the Mesa Lands Bordering the Imperial Irrigation District. By E. Mead. (California Sta. [Pamphlet], pp. 6.)

Colorado Weed Seeds. By G.E. Egginton. (Colorado Sta. Bul. 260, pp. 91, figs. 164.)

Report of ~~Potato~~ Potato Investigations. By C.F. Clark. (Colorado Sta. Bul. 261, pp. 34, figs. 6.)

Sod Disease of Chickens (Vesicular dermatitis). By I.E. Newsom and W.H. Feldman. (Colorado Sta. Bul. 262, pp. 12, figs. 6.)

Spray Calendar. (Connecticut State Sta. Bul. 224, pp. 66-110, figs. 100.)

A Study of the Bulb Mite. By P. Garman. (Connecticut State Sta. Bul. 225, pp. 113-132, pls. 3, figs. 3.)

Cotton Varieties. By T.S. Buie. (Georgia Sta. Bul. 136, pp. 15-22.)

Cotton Fertilization Experiments--1920. By F.H. Smith and T.S. Buie. (Georgia Sta. Bul. 137, pp. 27-36.)

Tomato Wilt. By J.A. McClintock. (Georgia Sta. Bul. 138, pp. 37-49, figs. 5.)

Thirty-third Annual Report, 1920. (Georgia Sta. Rpt. 1920, pp. 12.)

Preliminary Report on Farm Organization in Twin Falls and Latah Counties. By B. Hunter. (Idaho Sta. Bul. 123, pp. 11.)





Forest and Shade Trees for Planting in Idaho, Including a Price List for 1921.  
By F.G. Miller. (Idaho Sta. Circ. 16, pp. 4.)

The Horse and the Tractor.--An Economic Study of Their Use on Farms in  
Central Illinois. By W.F. Handschin, J.B. Andrews, and E. Rauchenstein.  
(Illinois Sta. Bul. 231, pp. 171-224, figs. 22.)

Thirty-third Annual Report, 1919-20. By E. Davenport. (Illinois Sta. Rpt.  
1920, pp. 23, fig. 1.)

Live Stock Sales Pavilions. By W.A. Foster and K.C. Ikeler. (Iowa Sta. Circ.  
67, pp. 40, figs. 28.)

Forage Crops in Western Kansas. By R.E. Getty. (Kansas Sta. Bul. 225, pp.  
54, figs. 10.)

The Cost of Producing Tobacco in Kentucky. By W.D. Nicholls and F.W. Peck.  
(Kentucky Sta. Bul. 229, pp. 133-190, figs. 13.)

Feeding Ground Rough Rice, etc. to Horses, Mules, Hogs, and Dairy Cattle.  
(Louisiana Sta. Bul. 179, pp. 8.)

Thirty-second Annual Report, 1920. By W.H. Dalrymple. (Louisiana Sta. Rpt.  
1920, pp. 32.)

Normal and Abnormal Germination of Grass-fruits. By J. Zinn. (Maine Sta. Bul.  
294, pp. 197-216, pls. 4.)

Available Publications. (Maine Sta. [Leaflet], pp. 2.)

Meteorological Observations at the Massachusetts Agricultural Experiment  
Station. By J.E. Ostrander and H.W. Poole. (Massachusetts Sta. Met. Bul.  
386, pp. 4.)

Corn Growing in Michigan. By J.F. Cox and J.R. Duncan. (Michigan Sta. Regular  
Bul. 289, pp. 46, figs. 38.)

Testing Fertilizers for Missouri Farmers: 1920. (Missouri Sta. Bul. 178, pp.  
72, fig. 1.)

What the Agricultural Experiment Station is Doing for Missouri. (Missouri Sta.  
Bul. 179, pp. 60, figs. 19.)

Plant Inspection in Missouri. By K.C. Sullivan. (Missouri Sta. Circ. 101, pp.  
16, figs. 5.)

Keeping Soils Productive. By R.R. Hudelson. (Missouri Sta. Circ. 102, pp. 24,  
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Sweet Potato Culture in Missouri. By J.T. Rosa, Jr. (Missouri Sta. Circ. 103,  
pp. 12, figs. 6.)

Pruning Fruit Trees. By J. Oskamp. (Missouri Fruit Sta., Fruit News Notes  
8(1921), pp. 8.)

- Analyses of Commercial Fertilizers, Fertilizer Supplies, and Home Mixtures--1920. By C.S. Cathcart. (New Jersey Sta. Bul. 344, pp. 5-47.)
- Potato Diseases in New Jersey. By M.T. Cook and W.H. Martin. (New Jersey Stas. Circ. 122, pp. 39, figs. 22.)
- How to Hatch More and Better Chicks. By E.H. Wene. (New Jersey Stas. Hints to Poultrymen, 9(1921), No. 5, pp. 4, fig. 1.)
- Coal Stove Colony Brooding. By I.L. Owen. (New Jersey Stas. Hints to Poultrymen, 9(1921), No. 6, pp. 4, figs. 4.)
- Twenty-seventh Annual Report, 1919.--Sturtevant's Notes on Edible Plants. By U.P. Hedrick. (New York State Sta. Rpt. 2(1919), part II, pp. VII + 686, pls. 1.)
- Mineral Content of Southern Poultry Feeds and Their Potential Acidity and Potential Alkalinity. By B.F. Kaupp. (North Carolina Sta. Tech. Bul. 19, pp. 3-42, fig. 1.)
- County Experiment Farms in Ohio.--Annual Reports for 1918-19. (Ohio Sta. Bul. 344, pp. 221-478, figs. 24.)
- Ohio Weather for 1919. By W.H. Alexander and C.A. Patton. (Ohio Sta. Bul. 345, pp. 481-570, figs. 62.)
- Thirty-ninth Annual Report, 1919-20. (Ohio Sta. Bul. 346, pp. XXXX + [6], fig. 1.)
- Rations for Fattening Steers. By J.C. Burns. (Texas Sta. Bul. 263, pp. 19, figs. 4.)
- Grain Sorghums v. Corn for Fattening Lambs. By J.M. Jones, R.A. Brewer, and R.E. Dickson. (Texas Sta. Bul. 269, pp. 3-13.)
- The Salt or Sodium Chlorid Content of Feeds. By G.S. Fraps and S. Lomanitz. (Texas Sta. Bul. 271, pp. 5-14.)
- Management of Chickens on Texas Farms. By R.M. Sherwood. (Texas Sta. Circ. 25, pp. 3-14, figs. 5.)
- Cost of Production; Its Relation to Price. By A.B. Cox. (Texas Sta. Circ. 26, pp. 3-11.)
- Monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Mo. Buls. 8(1921), No. 12, pp. 181-196, figs. 5; 9(1921), No. 1, pp. 16.)
- What the Retailer Does with the Consumer's Dollar. By T. Macklin and P.E. McNall. (Wisconsin Sta. Bul. 324, pp. 22, figs. 3.)



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UNITED STATES DEPARTMENT OF AGRICULTURE  
STATES RELATIONS SERVICE  
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LIST OF STATION PUBLICATIONS  
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NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

The Grape. By J.C.C. Price. (Alabama Sta. Bul. 211, pp. 35-50, figs. 15.)

Comparison of Peanut Meal, Cottonseed Meal, Velvet Bean Meal, Ammonium Sulphate, and Nitrate of Soda, as Fertilizers for Corn and Cotton. By E.F. Cauthen. (Ala. Sta. Bul. 215, pp. 3-8.)

The Supply, the Price, and the Quality of Fuel Oils for Pump Irrigation. By G.E.P. Smith. (Arizona Sta. Bul. 92, pp. 393-423, figs. 7.)

General Index to Colorado Station Publications. Compiled by A. Dilts. (Colorado Sta. Bul. 263, pp. 69.)

Twentieth Report of the State Entomologist for 1920. By W.E. Britton. (Connecticut State Sta. Bul. 226, pp. 133-216, pls. 12, figs. 13.)

Connecticut Round Tip Tobacco.--A New Type of Wrapper Leaf. By D.F. Jones. (Connecticut State Sta. Bul. 228, pp. 287-292, pl. 1.)

Work and Progress of the Agricultural Experiment Station for the Year Ended December 31, 1920. (Idaho Sta. Bul. 122, pp. 64, figs. 3.)

Elimination of Germs from Dairy Utensils. By M.J. Prucha and H.A. Harding. (Illinois Sta. Abstract of Bulletin 230, pp. 4.)

I: Potash Shales of Illinois; II: Geology, Distribution, and Occurrence in Union County; III: Finely-ground Shale as a Source of Potassium for Soil Improvement. By S.W. Parr, M.M. Austin, F. Krey, and R. Stewart, (Illinois Sta. Bul. 232, pp. 225-252, figs. 7.)

Farm Buildings. By F.C. Lewis. (Indiana Sta. Circ. 100, pp. 144, figs. 130.)

Feeding Laying Hens. By A.G. Philips. (Indiana Sta. Circ. 101, pp. 16, figs. 5.)

Thirty-third Annual Report, 1920. By H.J. Patterson. (Maryland Sta. Rpt. 1920, pp. IX - 140, figs. 61.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and H.W. Poole. (Massachusetts Sta. Met. Bul. 387, pp. 4.)

Report of Golden Valley Peat Experimental Fields, 1918-19. By F.J. Alway. (Minnesota Sta. Bul. 194, pp. 7-116, figs. 43.)

A Report of Work at McNeill Branch Experiment Station, from 1912 to 1917, inclusive By E.B. Ferris. (Mississippi Sta. Bul. 188, pp. 23.)





- Diseases of the Sweet Potato in Mississippi and Their Control. By D.C. Neal.  
(Mississippi Sta. Bul. 190, pp. 16, figs. 14.)
- The Mosaic Disease of Sugar Cane in Mississippi in 1920. By L.E. Miles. (Mississippi Sta. Bul. 191, pp. 3-11, fig. 1.)
- Report of Cotton Experiments at the Holly Springs Branch Experiment Station, Seasons 1919 and 1920. By C.T. Ames. (Mississippi Sta. Bul. 192, pp. 3-10.)
- Report from Holly Springs Branch Experiment Station, for 1915-1920, inclusive. By C. T. Ames. (Mississippi Sta. Bul. 193, pp. 22, figs. 2.)
- Report from South Mississippi Branch Experiment Station, for 1918-1920, inclusive. By E.B. Ferris. (Mississippi Sta. Bul. 194, pp. 3-23.)
- Experiments in Dusting and Spraying Peaches for the Control of Curculio, Brown Rot, and Scab. By O.I. Snapp and L. Pierce. (Mississippi Sta. Bul. 195, pp. 8, fig. 1.)
- Cotton Growing in South Mississippi. By E.B. Ferris. (Mississippi Sta. Bul. 196, pp. 3-8.)
- Corn Experiments. By H.B. Brown. (Mississippi Sta. Bul. 197, pp. 3-20, figs. 3.)
- Corn Variety Tests, 1913-1920 (Delta Branch Station). By W.E. Ayres. (Mississippi Sta. Bul. 198, pp. 3-7.)
- Cultural Experiments with Cotton (Delta Branch Station). By G.B. Walker and W.E. Ayres. (Mississippi Sta. Circ. 35, pp. 4.)
- Varieties of Cotton 1919 and 1920 and Summary of Ten Years' Results, 1911-1920 (Delta Branch Station). By W.E. Ayres. (Mississippi Sta. Circ. 36, pp. 4, fig. 1.)
- Bat Guano and Its Fertilizing Value. By W.A. Albrecht. (Missouri Sta. Bul. 180, pp. 15, figs. 7.)
- Corn in Missouri, I - Corn Varieties and Their Improvement. By L.J. Stadler and C.A. Helm. (Missouri Sta. Bul. 181, pp. 51, figs. 7.)
- The Missouri Soil Survey. By H.E. Krusekopf. (Missouri Sta. Circ. 104, pp. 20, figs. 22.)
- Composition of the Bovine at Birth. By L.D. Haigh, C.R. Moulton, and P.F. Trowbridge. (Missouri Sta. Res. Bul. 38, pp. 3-47, pl. 1.)
- Orchard Soil Management. By J. Oskamp. (Missouri Fruit Sta. Fruit News Notes No. 9, pp. 8.)
- The Septic Tank.--A Method of Sewage Disposal for the Isolated Home. By H.E. Murdock. (Montana Sta. Bul. 137, pp. 27, figs. 13.)
- Summer Hog Feeding. By H.J. Gramlich. (Nebraska Sta. Bul. 176, pp. 20, figs. 5.)
- The Nebraska Tractor Tests. (Nebraska Sta. Bul. 177, pp. 14, figs. 2.)
- Inspection of Commercial Fertilizers for 1920. By H.R. Kraybill, T.O. Smith, and C.P. Spaeth. (New Hampshire Sta. Bul. 196, pp. 15.)

- Results of Seed Tests for 1920. By M.G. Eastman. (New Hampshire Sta. Bul. 197, pp. 16.)
- Experiments with Contact Sprays for Leaf Miners. By W.C. O'Kane and C.A. Weigel.  
(New Hampshire Sta. Tech. Bul. 17, pp. 3-24, fig. 1.)
- Analyses of Commercial Fertilizers and Ground Bone. Analyses of Agricultural Lime.  
By C.S. Cathcart. (New Jersey Stas. Bul. 349, pp. 5-45.)
- Inspection of Feeding Stuffs. (New York State Sta. Bul. 469, pp. 319.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 8(1921), No. 44,  
pp. 11.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul.  
6(1921), Nos. 3, 4, pp. 34-64, figs. 7.)
- Lespedeza (Japan Clover). By S.H. Essary. (Tennessee Sta. Bul. 123, pp. 28, figs. 6.)
- The Relation of the Phosphoric Acid of the Soil to Pot. Experiments. By G.S. Fraps.  
(Texas Sta. Bul. 267, pp. 5-53, figs. 2.)
- A Study of the Black and the Yellow Molds of Ear Corn. By J.J. Taubenhause. (Texas  
Sta. Bul. 270, pp. 3-38, figs. 10.)
- The Chemical Composition of Texas Honey and Pecans. By G.S. Fraps. (Texas Sta. Bul.  
272, pp. 5-9.)
- Potato Improvement by Hill Selection. By G. Stewart. (Utah Sta. Bul. 176, pp. 28,  
figs. 15.)
- Some Types of Irrigation Farming in Utah. By E.B. Brossard. (Utah Sta. Bul. 177,  
pp. 140, figs. 21.)
- Annual Report, 1920. By L. Smith. (Virgin Islands Sta. Rpt. 1920, pp. 5-35, figs. 4.)
- Dusting Experiments in Peach and Apple Orchards in 1920. By F.D. Fromme, G.S. Ralston,  
and J.F. Eheart. (Virginia Sta. Bul. 224, pp. 12, figs. 2.)
- Dairy Barns. By O.R. Zeasman, G.C. Humphrey, and L.M. Schindler. (Wisconsin Sta. Bul.  
325, pp. 34, figs. 25.)
- Wisconsin Rye. By R.A. Moore and B.D. Leith. (Wisconsin Sta. Bul. 326, pp. 19,  
figs. 8.)
- Field Peas for Wisconsin. By E.J. Delwiche. (Wisconsin Sta. Bul. 329, pp. 24,  
figs. 12.)



UNITED STATES DEPARTMENT OF AGRICULTURE  
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LIST OF STATION PUBLICATIONS  
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The Mexican Bean Beetle.--A New Pest in Alabama. By W.E. Hinds. (Alabama Sta. Bul. 216, pp. 11-18, pls. 4.)

Thirty-first Annual Report, 1920. (Arizona Sta. Rpt. 1920, pp. 424-484, figs. 5.)

Colorado Plant Diseases. By J.G. Leach. (Colorado Sta. Bul. 259, pp. 5-96, pls. 3, figs. 72.)

The Venturi Flume. By R.L. Parshall and C. Rowher. (Colorado Sta. Bul. 265, pp. 3-28, pls. 7, figs. 14.)

Beet By-products for Fattening Lambs. By E.J. Maynard. (Colorado Sta. Bul. 266, pp. 12, figs. 4.)

Thirty-third Annual Report, 1920. (Colorado Sta. Rpt. 1920, pp. 42.)

Economy in Feeding the Family.--Why We Must Have Vegetables. By E.H. Jenkins. (Connecticut State Sta. Bul. of Inform. 11, pp. 3.)

Wild-fire of Tobacco. (Connecticut State Sta. Bul. of Immediate Inform. No. 12, pp. 2.)

Spray Now to Kill European Red Mite. By W.E. Britton. (Connecticut State Sta. Bul. of Immediate Inform., No. 13, pp. 3.)

Bulletin of Immediate Information [Calling the Attention of Purchasers of Fertilizers to Certain Facts]. (Connecticut State Sta. Bul. of Immediate Inform. No. 14, p. 1.)

Warning to Tobacco Growers. By E.H. Jenkins. (Connecticut State Sta. Bul. of Immediate Inform. No. 15, pp. 2.)

Nitrate Production in Field Soils in Illinois. By A.L. Whiting and W.R. Schoonover. (Illinois Sta. Abs. of Bul. 225, pp. 4.)

Tomato Bacterial Spot and Seed Disinfection. By M.W. Gardner and J.B. Kendrick. (Indiana Sta. Bul. 251, pp. 15, figs. 10.)

Commercial Feeding Stuffs. By E.G. Proulx, et al. (Indiana Sta. Bul. 252, pp. 3-15.)

Nitrification in Acid Soils. By R.E. Stephenson. (Iowa Sta. Res. Bul. 58, pp. 331-349.)

- A Study of Lactose-fermenting Yeasts in "Yeasty" Cream. By B.W. Hammer and ~~W.A.~~ Cordes. (Iowa Sta. Res. Bul. 61, pp. 3-23.)
- Live Stock Investigations for the Year 1920-21. By C.W. McCampbell. (Kansas Sta. Rpt. 1921, pp. 8, fig. 1.)
- Orthoptera of Maine. --Grasshoppers and Related Insects. By A.P. Morse. (Maine Sta. Bul. 296, pp. 36, figs. 25.)
- Variety Tests of Corn, Wheat, and Soy Beans. By J.E. Metzger and G. Eppley. (Maryland Sta. Bul. 237, pp. 23, figs. 10.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and H.W. Poole. (Massachusetts Sta. Met. Bul. 388, pp. 4.)
- Cotton Experiments 1919-20. By H.B. Brown and C.B. Anders. (Mississippi Sta. Bul. 187, pp. 3-31, figs. 4.)
- The Regional Adaptation of Corn in Nebraska. By T.A. Kiesselbach and F.D. Keim. (Nebraska Sta. Res. Bul. 19, pp. 64, figs. 13.)
- Studies on Tomato Leaf-spot Control. By W.H. Martin. (New Jersey Sta. Bul. 345, pp. 43, figs. 4.)
- The Chemical Composition of the Soils of the Camden Area in New Jersey. By A.W. Blair and H.C. McLean. (New Jersey Stas. Bul. 346, pp. 40, figs. 2.)
- The Artificial Incubation and Brooding of Turkeys. By H.W. Graybill. (New Jersey Stas. Bul. 347, pp. 11, fig. 1.)
- Fertilizer Registrations for 1921. By C.S. Cathcart. (New Jersey Stas. Bul. 350, pp. 5-35.)
- Aids to Successful Oyster Culture.--I, Procuring the Seed. By T.C. Nelson. (New Jersey Stas. Bul. 351, pp. 59, figs. 24.)
- A Complete Fertilizer for Savannah Cranberry Land. By C.S. Beckwith. (New Jersey Stas. Circ. 124, pp. 4, figs. 1.)
- A Campaign to Control Chicken Pox. By W.C. Thompson and L.S. Dodson. (New Jersey Stas. Hints to Poultrymen, 9(1921), No. 7, pp. 4, fig. 1.)
- Improved Variety No. 9 of Native Chile. By F. Garcia. (New Mexico Sta. Bul. 124, pp. 16, figs. 7.)
- Thirty-second Annual Report of the College of Agriculture and of the Agricultural Experiment Station, 1919. (New York State Sta. Rpt. 1919, Vol. 1, pp. CIV + 1106 + [8], pls. 17, figs. 175.)
- Report of the Director, 1919-20. By P.F. Trowbridge. (North Dakota Sta. Bul. 146, pp. 48, figs. 6.)
- Inheritance of Rust Resistance in a Family Derived from a Cross Between Durum and Common Wheat. By L.R. Waldron. (North Dakota Sta. Bul. 147, pp. 4-24, figs. 2.)



- Fifteenth Annual Report of the State Demonstration Farms, 1920. By E.I. Olsen. (North Dakota Sta. Bul. 148, pp. 38, figs. 8.)
- Paint Bulletin, Food Department. (North Dakota Sta. Paint Bul. 1(1919), No. 7, pp. 113-138.)
- The Lettuce "Drop" Due to Sclerotinia Minor. By W.S. Beach. (Pennsylvania Sta. Bul. 165, pp. 27, figs. 6.)
- Soil Fertility Experiments on DeKalb, Volusia, and Westmoreland Soils. By J.W. White and F.J. Holben. (Pennsylvania Sta. Bul. 166, pp. 23, figs. 5.)
- Yam Culture in Porto Rico. By C.F. Kinman. (Porto Rico Sta. Bul. 27, pp. 22, pls. 6.)
- Experiences with Alfalfa. By S.C. Damon. (Rhode Island Sta. Bul. 184, pp. 26, figs. 4.)
- Pink Root Disease of Onions and Its Control in Texas. By J.J. Taubenhaus and F.W. Mally. (Texas Sta. Bul. 273, pp. 3-42, figs. 3.)
- Cotton Variety Experiments, Substation No. 3, Angleton, Tex. By E.B. Reynolds. (Texas Sta. Bul. 274, pp. 5-10.)
- Spur Feterita. By A.B. Conner and R.E. Dickson. (Texas Sta. Bul. 275, pp. 7-28.)
- Apple Candy.--A Commercial Use for Cull Apples. By T.H. Abell. (Utah Sta. Bul. 179, pp. 14, figs. 7.)
- Sea Island Cotton in St. Croix. By L. Smith. (Virgin Islands Sta. Bul. No. 1, pp. 14, pls. 2.)
- Monthly Bulletin of the Western Washington Substation, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Mo. Bul., 9(1921), No. 2, pp. 17-32, figs. 2.)
- West Virginia Trees. By A.B. Brooks. (West Virginia Sta. Bul. 175, pp. 242, figs. 107.)
- Feeding Yearling Steers. Summarized by C.E. Stockdale. (West Virginia Sta. Circ. 34, pp. 4, fig. 1.)
- Cost of Canning Wisconsin Peas. By Theodore Macklin. (Wisconsin Sta. Bul. 327, pp. 20, figs. 7.)
- Profitable Root Crops. By E.J. Delwiche. (Wisconsin Sta. Bul. 330, pp. 22, figs. 12.)



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- Arkansas Cotton Diseases. By J.A. Elliott. (Arkansas Sta. Bul. 173, pp. 3-26, figs. 5.)
- Commercial Grape Growing. By J.R. Cooper. (Arkansas Sta. Bul. 174, pp. 39, figs. 24.)
- The Fixation of Nitrogen in Colorado Soils.--A Study of the Wellington District, Larimer County, Colorado. By W.P. Headden. (Colorado Sta. Bul. 258, pp. 3-48, fig. 1.)
- Twenty-fifth Report on Food Products and Thirteenth Report on Drug Products. By E.M. Bailey. (Connecticut State Sta. Bul. 227, pp. 217-283.)
- Report on Commercial Feeding Stuffs, 1920. By E.M. Bailey. (Connecticut State Sta. Bul. 229, pp. 293-323.)
- Control of Root Knot, II. By J.R. Watson. (Florida Sta. Bul. 159, pp. 29-44, fig. 1.)
- Soft Pork Studies, II. By J.M. Scott. (Florida Sta. Bul. 160, pp. 45-52, fig. 1.)
- Variation in Farrow with Special Reference to the Birth Weight of Pigs. By W.J. Carmichael and J.B. Rice. (Illinois Sta. Abs. of Bul. 226, pp. 4.)
- Soil Survey of Iowa: Report No. 1, Webster County Soils. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 4, pp. 48, pls. 2, figs. 10.)
- Soil Survey of Iowa: Report No. 5, Lee County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 5, pp. 48, pl. 1, figs. 11.)
- Soil Survey of Iowa: Report No. 6, Sioux County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 6, pp. 48, pls. 2, figs. 16.)
- Soil Survey of Iowa: Report No. 7, Van Buren County Soils. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 7, pp. 52, pl. 1, figs. 18.)
- Soil Survey of Iowa: Report No. 8, Clinton County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 8, pp. 64, pls. 2, figs. 23.)
- Soil Survey of Iowa: Report No. 9, Scott County Soils. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 9, pp. 56, pl. 1, figs. 17.)



- Soil Survey of Iowa: Report No. 10, Ringgold County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 10, pp. 48, pl. 1, figs. 17.)
- Soil Survey of Iowa: Report No. 11, Mitchell County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 11, pp. 44, pl. 1, figs. 15.)
- Soil Survey of Iowa: Report No. 12, Clay County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 12, pp. 54, pl. 1, figs. 11.)
- Soil Survey of Iowa: Report No. 13, Montgomery County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Report No. 13, pp. 46, pl. 1, figs. 10.)
- Soil Survey of Iowa: Report No. 14, Black Hawk County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 14, pp. 60, pl. 1, figs. 12.)
- Soil Survey of Iowa: Report No. 15, Henry County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 15, pp. 60, pl. 1, figs. 15.)
- Soil Survey of Iowa: Report No. 16, Buena Vista County Soils. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 16, pp. 54, pl. 1, figs. 12.)
- Soil Survey of Iowa: Report No. 17, Linn County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 17, pp. 60, pls. 2, figs. 12.)
- Soil Survey of Iowa: Report No. 18, Wapello County. By W.H. Stevenson and P.E. Brown. (Iowa Sta. Soil Survey Rpt. No. 18, pp. 56, pl. 1, figs. 9.)
- Summer Control of the Chinch Bug. By J.W. McColloch. (Kansas Sta. Circ. 87, pp. 8, figs. 3.)
- Abstracts of Papers Not Included in Bulletins, Finances, Meteorology, Index. By J.W. Gowen. (Maine Sta. Bul. 295, pp. 215-236 + XII.)
- Potato Leafroll. By D. Folsom. (Maine Sta. Bul. 297, pp. 35-52, pls. 4, figs. 3.)
- Seed Inspection for 1919. By F.S. Holmes. (Maryland Sta. Bul. 238, pp. 23-55.)
- The Relation of Certain Greenhouse Pests to a Geranium Leaf Spot. By P. Garman. (Maryland Sta. Bul. 239, pp. 55-80, figs. 6.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and H.W. Poole. (Massachusetts Sta. Met. Bul. 389, pp. 4.)
- Soils of the Detroit Area. By M.M. McCool and G.M. Grantham. (Michigan Sta. Spec. Bul. 104, pp. 31, pl. 1, figs. 15.)
- Hubam Clover. By J.F. Cox, F.A. Spragg, and E.E. Down. (Michigan Sta. Circ. Bul. 45, pp. 4, fig. 1.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. By G.A. Brown. (Michigan Sta. Quart. Bul. 3(1921), No. 3, pp. 75-112, figs. 11.)
- Bush Fruits. By J. Oskamp. (Missouri Sta. Circ. 19, pp. 12, figs. 10.)
- Summer Fallowing Experiments in the Judith Basin. By W.P. Baird. (Montana Sta. Bul. 138, pp. 39, figs. 2.)

- Eighteenth Annual Report of the State Entomologist of Montana. By R.A. Cooley.  
(Montana Sta. Bul. 139, pp. 16, figs. 2.)
- Winter Wheat Seed-bed Preparation. By W.P. Snyder and E.A. Burnett. (Nebraska  
Sta. Bul. 178, pp. 16, figs. 2.)
- The Nebraska Tractor Law and Rules for Official Tractor Tests. (Nebraska Sta. Circ.  
13, pp. 8, fig. 1.)
- Thirty-fourth Annual Report, 1920. (Nebraska Sta. Rpt. 1920, pp. 54.)
- Insect Injuries in Relation to Apple Grading. By B.B. Fulton. (New York State  
Sta. Bul. 475, pp. 42, pls. 4, figs. 19.)
- Studies on the Cost of Producing Grapes. By F.E. Gladwin. (New York State Sta.  
Bul. 479, pp. 33.)
- The Cost of Producing Grapes in the Chautauqua and Lake Erie Fruit Belt. Summarized  
by J.D. Lockett, from bulletin by F.E. Gladwin. (New York State Sta. Bul. 479,  
pop. ed., pp. 7, fig. 1.)
- Inspection of Commercial Fertilizers, 1920. (New York State Sta. Bul. 480, pp. 59.)
- Inspection of Insecticides and Fungicides, 1920. (New York State Sta. Bul. 481,  
pp. 18.)
- Director's Report for 1920. By W.H. Jordan. (New York State Sta. Bul. 483, pp. 23.)
- The Control of the Pear Thrips. By C.R. Phipps. (New York State Sta. Bul. 484, pp.  
11, pls. 6.)
- Blister Canker of Apple and Its Control. By W.O. Gloyer. (New York State Sta. Bul.  
485, pp. 71, pls. 15, figs. 8.)
- The Relation of the Number of Bacteria in Milk to the Quality and Yield of Cheese.  
By G.J. Hucker. (New York State Sta. Bul. 486, pp. 19, figs. 8.)
- Types of Flowers and Intersexes in Grapes With Reference to Fruit Development. By  
A.B. Stout. (New York State Sta. Tech. Bul. 82, pp. 16, figs. 6.)
- The Green June Beetle or Fig Eater. By J.J. Davis and P. Luginbill. (North Carolina  
Sta. Bul. 242, pp. 35, figs. 8.)
- Forty-third Annual Report, 1920. (North Carolina Station Rpt. 1920, pp. 69.)
- Edgeley Substation Report 1914 to 1920. (North Dakota Sta. Bul. 145, pp. 44.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 8(1921), No.  
45, pp. 8.)
- Paint Bulletin, Food Department. (North Dakota Sta. Paint Bul., 1(1919), No. 7, pp.  
113-138.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul.  
6(1921), Nos. 5, 6, pp. 95, figs. 7.)



- Bacterial Blight of Beans. By C.W. Rapp. (Oklahoma Sta. Bul. 131, pp. 39, figs. 15.)
- Composition and Digestibility of Sudan Grass Hay, Darso, Darso Silage, Broom Corn Seed and Sunflower Silage. By C.T. Dowell and W.G. Friedemann. (Oklahoma Sta. Bul. 132, pp. 8.)
- Sheep Feeding Investigations. By W.T. Magee and A.E. Darlow. (Oklahoma Sta. Bul. 133, pp. 4, fig. 1.)
- Cattle Feeding Investigation. By W.L. Blizzard. (Oklahoma Sta. Bul. 134, pp. 7, figs. 4.)
- Twenty-ninth Annual Report, 1920. By H. G. Knight. (Oklahoma Sta. Rpt. 1920, pp. 64, figs. 19.)
- The Relation of Carbohydrates and Nitrogen to the Behavior of Apple Spurs. By E.M. Harvey and A.E. Murneek. (Oregon Sta. Bul. 176, pp. 47, figs. 12.)
- The Management of Sandy Soils Under Irrigation. By H.K. Dean. (Oregon Sta. Bul. 177, pp. 26, figs. 14.)
- Soy Beans. By C.F. Noll and R.D. Lewis. (Pennsylvania Sta. Bul. 167, pp. 20, figs. 2.)
- Variety Tests with Corn, 1917-20. (South Carolina Sta. Bul. 207, pp. 19.)
- Water as a Limiting Factor in the Growth of Sweet Clover (*M. alba*). By A.N. Hume, H. Loomis, and J.G. Hutton. (South Dakota Sta. Bul. 191, pp. 298, figs. 5.)
- Farm Records and Accounts. By H.M. Eliot and H.B. Killough. (Texas Sta. Bul. 264, pp. 40, figs. 8.)
- Corn Variety Experiments, Substation No. 3, Angleton, Texas. By E.B. Reynolds. (Texas Sta. Bul. 276, pp. 15, figs. 2.)
- The Screw Worm and the Wool Maggot. By O.G. Babcock and D.H. Bennett. (Texas Sta. Circ. 27, pp. 15, figs. 7.)
- Dusting Cotton for the Control of the Boll Weevil. By M.C. Tanquary and H.J. Reinhard. (Texas Sta. Circ. 29, pp. 9, fig. 1.)
- The Irrigation of Alfalfa. By F.S. Harris and D.W. Pittman. (Utah Sta. Bul. 180, pp. 30, figs. 9.)
- The Agriculture of Utah. By F.S. Harris. (Utah Sta. Circ. 44, pp. 32, figs. 19.)
- Wheat Production as Influenced by Variety, Time of Seeding, and Source of Seed. By E.G. Schafer, E.F. Gaines, and O.E. Barbee. (Washington Sta. Bul. 159, pp. 34, figs. 10.)
- Cultural Experiments with Wheat. By E.G. Schafer, E.F. Gaines, and O.E. Barbee. (Washington Sta. Bul. 160, pp. 19, figs. 4.)
- Studies on Digestibility of Sunflower Silage Fed to Sheep. By J. Sotola. (Washington Sta. Tech. Bul. 161, pp. 12, figs. 4.)



- Sunflower Production for Silage. By E.G. Schafer and R.O. Westley. (Washington Sta. Bul. 162, pp. 20, figs. 4.)
- The Farm Well Planned. By D.H. Otis. (Wisconsin Sta. Bul. 328, pp. 28, figs. 23.)
- Potato Scab. By J.W. Brann and R.E. Vaughan. (Wisconsin Sta. Bul. 331, pp. 27, figs. 13.)
- Farms Follow Stumps. By H.L. Russell. (Wisconsin Sta. Bul. 332, pp. 35, figs. 23.)
- How to Control American Foulbrood. By H.F. Wilson. (Wisconsin Sta. Bul. 333, pp. 21, figs. 8.)
- Poisonous Plants of Wyoming. (By O.A. Beath. (Wyoming Sta. Bul. 126, pp. 35, figs. 18.)
- Studies in the Variation and Correlation of Fleeces from Range Sheep. By J.A. Hill. (Wyoming Sta. Bul. 127, pp. 37-52, fig. 1.)
- Thirtieth Annual Report, 1919-20. (Wyoming Sta. Rpt. 1920, pp. 143.)



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LIST OF STATION PUBLICATIONS  
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NOTE.--The station publications noted in this list ARE NOT DISTRIBUTED BY THE DEPARTMENT OF AGRICULTURE, but can usually be obtained, as far as the supply will permit, by applying to the stations issuing them. An address list of the stations will be furnished upon request.

- Septoria Glume Blotch of Wheat. By H.R. Rosen. (Arkansas Sta. Tech. Bul. 175, pp. 17, figs. 4.)
- The Codlin Moth in the Payette Valley. By L.E. Longley. (Idaho Sta. Bul. 124, pp. 27, figs. 10.)
- Sugar Beet Top Silage. By R.E. Neidig. (Idaho Sta. Circ. 17, pp. 4.)
- Sweet Clover for Nitrate Production. By A.L. Whiting and T.E. Richmond. (Illinois Sta. Bul. 233, pp. 253-267, fig. 1.)
- Commercial Fertilizers. By E.G. Proulx et al. (Indiana Sta. Bul. 253, pp. 3-71, figs. 2.)
- Advanced Registry Testing in Indiana. By L.H. Fairchild. (Indiana Sta. Circ. 102, pp. 16, figs. 5.)
- Lamb Feeding Investigations, 1919-20. By A.M. Paterson and H.B. Winchester. (Kansas Sta. Circ. 88, pp. 6, fig. 1.)
- Swine Feeding Investigations, 1919-20. By E.F. Ferrin and H.B. Winchester. (Kansas Sta. Circ. 89, pp. 10, fig. 1.)
- The Relation of the Kentucky Species of *Solidago* to the Period of Activity of Adult *Cyllene robiniae*. By H. Garman. (Kentucky Sta. Res. Bul. 231, pp. 3-22, figs. 6.)
- Grasshoppers and Related Insects. By A.P. Morse. (Maine Sta. Pamphlet [541-6-21], pp. 6.)
- The Nutritive Value of Cattle Feeds.--II, Oat By-products for Farm Stock. By J.B. Lindsey and C.L. Beals. (Massachusetts Sta. Bul. 200, pop. ed., pp. 10, figs. 2.)
- Inspection of Commercial Fertilizers. By H.D. Haskins, L.S. Walker, and A.M. Clarke. (Massachusetts Sta. Cont. Ser. Bul. 14, pp. 92.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and A.G. Lindskog. (Massachusetts Sta. Met. Bul. 390, pp. 4.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul. 3(1921), No. 4, pp. 117-148, figs. 11.)



- Thirty Years of Field Experiments with Crop Rotation, Manure, and Fertilizers.  
By L.F. Miller and R.R. Hudelson. (Missouri Sta. Bul. 182, pp. 43, figs. 11.)
- Corn Experiments in South Central Montana.--Results from the Experimental Dry Farm,  
Huntley, Mont. By A.E. Seemans. (Montana Sta. Bul. 140, pp. 24, figs. 7.)
- Control of Poultry Lice and Mites. By W.F. Schoppe. (Montana Sta. Circ. 95, pp.  
8, figs. 2.)
- Diseases of Sweet Potatoes. By M.T. Cook and R.F. Poole. (New Jersey Stas. Circ.  
123, pp. 24, figs. 18.)
- Culling.--A Practical Plan to Eliminate the Nonproducing Hen. By W.H. Allen.  
(New Jersey Stas. Hints to Poultrymen 9(1921), No. 9, pp. 4, fig. 1.)
- Chamisa as an Emergency Feed for Range Cattle. By L. Foster, J.L. Lantow, and  
C.P. Wilson. (New Mexico Sta. Bul. 125, pp. 27, figs. 11.)
- The Genetic Relations of Plant Colors in Maize. By R.A. Emerson. (New York Cornell  
Sta. Mem. 39, pp. 156, pls. 11.)
- The Utilization of Calcium Compounds in Animal Nutrition. (Ohio Sta. Bul. 347,  
pp. 99, figs. 2.)
- Poultry Housing. By J. Dryden. (Oregon Sta. Bul. 179, pp. 3-22, figs. 15.)
- Annual Report, 1920. (Porto Rico Sta. Rpt. 1920, pp. 39, pls. 6.)
- Inspection of Commercial Feeds. By P.H. Wessels and F.P. Gross, Jr. (Rhode Island  
Sta. Ann. Feed Circ. (Contribution 276), pp. 3-12.)
- Rations for Pigs. By J.W. Wilson and A.H. Kuhlman. (South Dakota Sta. Bul. 192,  
pp. 302-316, figs. 4.)
- Soybeans in South Dakota. By A.T. Evans and M. Fowlds. (South Dakota Sta. Bul.  
193, pp. 317-324.)
- Sweet Potato Fertilizer Experiments at Substation No. 2, Troup. By W.S. Hotchkiss.  
(Texas Sta. Bul. 277, pp. 3-7, fig. 1.)
- Internal Parasites Affecting Sheep and Goats.--Causes, Life History, Symptoms, and  
Treatments. By D.H. Bennet. (Texas Sta. Circ. 28, pp. 3-16, figs. 9.)
- Bi-monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash.  
(Washington Sta., West. Wash. Sta. Bi-monthly Bul. 9(1921), No. 3, pp. 33-48,  
figs. 5.)
- Combat Potato Leafhopper with Bordeaux. By J.E. Dudley Jr. and H.F. Wilson.  
(Wisconsin Sta. Bul. 334, pp. 31, figs. 19.)

UNITED STATES DEPARTMENT OF AGRICULTURE  
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LIST OF STATION PUBLICATIONS  
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Annual Report, 1920. (Delaware Sta. Bul. 126, pp. 28.)

Sweet Potato Storage in Delaware. By T.F. Manns. (Delaware Sta. Bul. 127, pp. 5-64, figs. 47.)

Steer Feeding Experiments, 1920-21. By C.W. Hickman, E.F. Rinehart, and A.W. Johnson. (Idaho Sta. Circ. 18, pp. 4.)

Lamb Feeding Experiments, 1920-21. By C.W. Hickman, E.F. Rinehart, and A.W. Johnson. (Idaho Sta. Circ. 19, pp. 4.)

Seventh Annual Report of the Creamery License Division, 1921. By T.H. Broughton. (Indiana Sta. Circ. 103, pp. 16, figs. 2.)

Fungicidal Action of Formaldehyde. By I.E. Melhus, J.C. Gilman, and J.B. Kendrick. (Iowa Sta. Res. Bul. 59, pp. 355-397, figs. 6.)

Influence of Condition on Maintenance Requirements of Dairy Cattle. By A.C. McCandlish and W.G. Gaessler. (Iowa Sta. Res. Bul. 60, pp. 403-420, figs. 6.)

A Study of Brown Glass Milk Bottles, With Reference to Their Use in Preventing Abnormal Flavors. By B.W. Hammer and W.A. Cordes. (Iowa Sta. Res. Bul. 64, pp. 99-111.)

The Type of Lactic Acid Produced by Starters and by Organisms Isolated From Them. By B.W. Hammer. (Iowa Sta. Res. Bul. 65, pp. 115-128.)

Swine mineral mixtures. By J.M. Evvard. (Iowa Sta. Circ. 70, pp. 2.)

Dairy Farming. By J.B. Fitch. (Kansas Sta. Circ. 90, pp. 32, figs. 13.)

Kanota: An Early Oat for Kansas. By S.C. Salmon and J.H. Parker. (Kansas Sta. Circ. 91, pp. 13, figs. 3.)

Studies in Orchard Management. By K. Sax. (Maine Sta. Bul. 298, pp. 53-84, fig. 1.)

Report of Progress on Animal Husbandry Investigations in 1920. By J.W. Cowen. (Maine Sta. Bul. 299, pp. 85-120, figs. 7.)



- Insecticides and Fungicides for Farm and Orchard Crops in Massachusetts. By E.B. Holland, A.I. Bourne, and P.J. Anderson. (Massachusetts Sta. Bul. 201, pp. IV + 37, pl. 1.)
- Insecticides and Fungicides for Farm and Orchard Crops in Massachusetts. By E.B. Holland, A.I. Bourne, and P.J. Anderson. (Massachusetts Sta. Bul. 201, pop. ed., pp. 16, pl. 1.)
- Annual Report, 1920, Part I. (Massachusetts Sta. Pub. Doc. 31, pp. [V] + 60a.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Bul. 391, pp. 4.)
- Forest Planting in Michigan. By A.K. Chittenden. (Michigan Sta. Spec. Bul. 103, pp. 16, figs. 5.)
- Rosen Rye. By F.A. Spragg. (Michigan Sta. Spec. Bul. 105, pp. 11, figs. 8.)
- Sugar Beet Growing in Michigan. By J.F. Cox and E.B. Hill. (Michigan Sta. Spec. Bul. 106, pp. 23, figs. 20.)
- Rate and extent of Solubility of Minerals and Rocks Under Different Treatments and Conditions. By G.J. Bouyoucos. (Michigan Sta. Tech. Bul. 50, pp. 3-32.)
- Studies on the Reactions Between Soils and Various Chemical Compounds. By C.H. Spurway. (Michigan Sta. Tech. Bul. 51, pp. 29.)
- Sweet Clover. By C.R. Megee. (Michigan Sta. Circ. Bul. 46, pp. 4, figs. 2.)
- The Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul. 3(1921), No. 4, pp. 117-148, figs. 11.)
- Sugar Cane for Sirup Making. By E.B. Ferris. (Mississippi Sta. Bul. 199, pp. 3-20.)
- Crop Rotations for Missouri Soils. By R.R. Hudelson and C.A. Helm. (Missouri Sta. Bul. 183, pp. 27, figs. 11.)
- Small Fruit Growing in Missouri. By H.G. Swartwout. (Missouri Sta. Bul. 184, pp. 27, figs. 6.)
- Corn in Missouri.--II, Field Methods that Increase the Corn Crop. By C.A. Helm. (Missouri Sta. Bul. 185, pp. 20, figs. 4.)
- Actinomycosis (Lump Jaw, Big Law, and Wooden Tongue) in Cattle. By J.W. Connaway. (Missouri Sta. Bul. 186, pp. 3-15, figs. 9.)
- Productive Methods for Wheat in Missouri. By C.A. Helm and L.J. Stadler. (Missouri Sta. Bul. 188, pp. 40, figs. 8.)
- The Effect of a Varying Supply of Nutrients Upon the Character and Composition of the Maize Plant at Different Periods of Growth. By F.L. Duley and M.F. Miller. (Missouri Sta. Res. Bul. 42, pp. 66, figs. 25.)
- The Poison Parsnip or Water Hemlock (*Cicuta occidentalis*).--A Plant Deadly to Live Stock in Nevada. By C.E. Fleming, N.F. Peterson, et al. (Nevada Sta. Bul. 100, pp. 23, pl. 1, figs. 8.)



- Death Camas (Zygadenus paniculatus and Zygadenus venenosus).--Plants Poisonous to Sheep and Cattle. By C.E. Fleming, N.F. Peterson, et al. (Nevada Sta. Bul. 101, pp. 31, figs. 13.)
- The Mosquitoes of New Jersey and Their Control. By T.J. Headlee. (New Jersey Stas. Bul. 348, pp. 229, figs. 133.)
- A Study of the Biology of the Sprinkling Sewage Filter. By J.W. Thomson. (New Jersey Stas. Bul. 352, pp. 34, figs. 18.)
- Costs, Profits, and Practices of the Can-house Tomato Industry in New Jersey. By F. App and A.G. Waller. (New Jersey Stas. Bul. 353 (Farm Management Bul. 5), pp. 85, figs. 18.)
- Analyses of Commercial Feeding Stuffs and Registrations for 1921. By C.S. Cathcart. (New Jersey Stas. Bul. 354, pp. 5-68.)
- Summer Health Means Winter Eggs. By G.W. Hervey. (New Jersey Stas. Hints to Poultrymen, 9(1921), No. 10, pp. 4.)
- Finishing the Pullets. By W.P. Thorp, Jr. (New Jersey Stas. Hints to Poultrymen, 9(1921), No. 11, pp. 4, fig. 1.)
- Thirty-first Annual Report, 1919-20. (New Mexico Sta. Rpt. 1920, pp. 53, figs. 11.)
- Working Plan for a Communal Forest for the Town of Ithaca, New York. By J.S. Everitt. (New York Cornell Sta. Bul. 404, pp. 51-99, figs. 15.)
- The Crane-flies of New York.--Part II, Biology and Phylogeny. By C.P. Alexander. (New York Cornell Sta. Mem. 38, pp. 691-1133, figs. 87.)
- Report of the Hettinger Substation, 1919-20. By U.J. Downey. (North Dakota Sta. Bul. 150, pp. 15, figs. 5.)
- Methods of Renting Land in Ohio. By J.I. Falconer. (Ohio Sta. Bul. 348, pp. 101-130, figs. 6.)
- Supplements to Corn for Fattening Swine. By W.L. Robison. (Ohio Sta. Bul. 349, pp. 129-183, figs. 34.)
- Fourth and Fifth Annual Reports, 1919-20, by the Oklahoma State Livestock Registry Board. (Oklahoma Sta. Circ. 47, pp. 155, figs. 4.)
- Farm Drainage. By W.L. Powers and W. Cretcher. (Oregon Sta. Bul. 178, pp. 47, figs. 33.)
- Swine Production. By M.F. Grimes. (Pennsylvania Sta. Bul. 168, pp. 16, figs. 3.)
- Fertilizer Requirements of Rotations, including Corn, Potatoes, Rye, and Hay. By B.L. Hartwell and S.C. Damon. (Rhode Island Sta. Bul. 185, pp. 39.)
- Farm Tenantry in the United States. By W.B. Bizzell. (Texas Sta. Bul. 278, pp. 3-403.)

- Type and Variability in Kafir. By A.B. Conner and R.E. Karper. (Texas Sta. Bul. 279, pp. 14, figs. 6.)
- Alfalfa Production under Irrigation. By G. Stewart. (Utah Sta. Circ. 45, pp. 48, figs. 14.)
- Thirty Years of Agricultural Experiments in Utah. By F.S. Harris and N.I. Butt. (Utah Sta. Circ. 46, pp. 64, fig. 1.)
- Blackberries of New England.--Genetic Status of the Plants. By A.K. Peitersen. (Vermont Sta. Bul. 218, pp. 34, pls. 19.)
- Commercial Fertilizers, Commercial Feeding Stuffs, Agricultural Seed. By J.L. Hills, C.H. Jones, G.F. Anderson, and A.S. Lutman. (Vermont Sta. Bul. 220, pp. 32.)
- First 15 Years of a 40-Variety Apple Orchard: Apple Cion Selection from High and Low Yielding Parent Trees. By M.B. Cummings. (Vermont Sta. Bul. 221, pp. 38, pls. 4, figs. 2.)
- Wintering Dairy Heifers. By R.E. Hunt. (Virginia Sta. Bul. 225, pp. 15, figs. 5.)
- Studies in Apple Pollination. By O.M. Morris. (Washington Sta. Bul. 163, pp. 32, figs. 6.)



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- Feeding Cottonseed and Cottonseed Products to Range Steers. By E.B. Stanley.  
(Arizona Sta. Bul. 93, pp. 484-491, figs. 2.)
- Hegari in Arizona. By G.E. Thompson. (Arizona Sta. Circ. 33, pp. 4 fig. 1.)
- Sweet Clover in Arizona. By S.P. Clark. (Arizona Sta. Circ. 34, pp. 7.)
- Sudan Grass in Arizona. By R.S. Hawkins. (Arizona Sta. Circ. 35, pp. 5, figs. 2.)
- Rhodes Grass in Arizona. By S.P. Clark. (Arizona Sta. Circ. 36, pp. 3.)
- The Production of Clean Milk. By R.N. Davis. (Arizona Sta. Circ. 37, pp. 12, figs. 12.)
- The Adobe Milkhouse. By C.B. Brown. (Arizona Sta. Circ. 38, pp. 4, figs. 3.)
- Selecting Laying Hens. By R.B. Thompson. (Arizona Sta. Circ. 39, pp. 8, figs. 2.)
- Experiment Station Regulations Under Arizona Uniform Seed Law. (Arizona Sta. Circ. 40, pp. 3.)
- Poultry Breeding Contest. By R.B. Thompson. (Arizona Sta. Circ. 41, pp. 4.)
- Prune Growing in California. By A.H. Hendrickson. (California Sta. Bul. 328, pp. 38, figs. 12.)
- A White Fir Volume Table. By D. Bruce. (California Sta. Bul. 329, pp. 39-45.)
- Dehydration of Fruits. By W.V. Cruess and A.W. Christie. (California Sta. Bul. 330, pp. 47-77, figs. 2.)
- Vineyard Irrigation in Arid Climates. By F.T. Bioletti. (California Sta. Circ. 228, pp. 4.)
- The 1920 Wheat, Oats, and Corn Yields from Soil Experiment Fields in Illinois. (Illinois Sta. Circ. 246, pp. 4.)
- Home Economics Exhibits for County and Community Fairs. By M. Wilkerson. (Illinois Sta. Circ. 247, pp. 24, figs. 8.)



- Sunshine and Sanitation for Hog Houses. By W.A. Foster and J.M. Ewyard.  
(Iowa Sta. Bul. 194, pp. 257-296, figs. 45.)
- Preparation of Corn for Dairy Cows. By A.C. McCandlish and G.E. Weaver.  
(Iowa Sta. Bul. 195, pp. 297-304.)
- Controlling Downy Mildew of Lettuce. By A.T. Erwin. (Iowa Sta. Bul. 196, pp. 305-328, figs. 8.)
- The Cost of Producing Milk. By H.B. Munger. (Iowa Sta. Bul. 197, pp. 337-352.)
- Cooperative Live Stock Shipping in Iowa in 1920. By E.G. Nourse and C.W. Hammans.  
(Iowa Sta. Bul. 200, pp. 401-436, figs. 3.)
- Creamery Bookkeeping. By M. Mortensen. (Iowa Sta. Circ. 68, pp. 20, figs. 11.)
- Soil Survey of Iowa, Wayne County. By W.H. Stevenson and P.E. Brown, et al.  
(Iowa Sta. Soil Survey Report 19(1921), pp. 56, pl. 1, figs. 15.)
- Feeding Blackstrap Molasses to Young Calves. By R.C. Calloway. (Louisiana Sta. Bul. 180, pp. 22, fig. 1.)
- The Mosaic Disease of the Irish Potato and the Use of Certified Potato Seed. By C.W. Edgerton and G.L. Tiebout. (Louisiana Sta. Bul. 181, pp. 15, figs. 3.)
- Foods and Drugs. By J.M. Bartlett. (Maine Sta. Off. Insp. 99, pp. 20.)
- Internal Fungous Parasites of Agriculture Seeds. By C.C. Chen. (Maryland Sta. Bul. 240, pp. 79-110, figs. 22.)
- Annotated List of Halticini. By A.B. Duckett. (Maryland Sta. Bul. 241, pp. 107-155.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station.  
By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Bul. 392, pp. 4.)
- Fertilizer Analyses. By A.J. Patten, O.B. Winter, M.L. Grettenberger, and P. O'Meara. (Michigan Sta. Reg. Bul. 291, pp. 109.)
- Diseases of Bees in Michigan. By R.H. Kelty. (Michigan Sta. Spec. Bul. 107, pp. 16, figs. 6.)
- Quarterly Bulletin of the Michigan Agricultural Experiment Station. (Michigan Sta. Quart. Bul. 4(1921), No. 1, pp. 29, figs. 6.)
- Growth of Oak in the Ozarks. By F. Dunlap. (Missouri Sta. Res. Bul. 41, pp. 28, figs. 7.)
- Precipitation and the Growth of Oaks at Columbia, Missouri. By W.J. Robbins.  
(Missouri Sta. Res. Bul. 44, pp. 21, pl. 1, figs. 3.)
- Factors Influencing Quality and Composition of Sunflower Silage. By M.J. Blish.  
(Montana Sta. Bul. 141, pp. 22.)
- Twenty-seventh Annual Report, 1920. (Montana Sta. Rpt. 1920, pp. 52.)

- The Business Possibilities of Poultry Keeping. By W.C. Thompson. (New Jersey Stas. Hints to Poultrymen 9(1921), No. 12, pp. 4, fig. 1.)
- The Green June Beetle or Fig Eater. By J.J. Davis and P. Luginbill. (North Carolina Sta. Appendix to Bul. 242, pp. 8, figs. 22.)
- Varietal Trials with Spring Wheat in North Dakota. By T.E. Stoa. (North Dakota Sta. Bul. 149, pp. 55, pls. 2, fig. 1.)
- Winter Wheat in North Dakota. By L.R. Waldron. (North Dakota Sta. Bul. 151, pp. 8.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul. 6(1921), Nos. 7 & 8, pp. 97-128, figs. 7.)
- Liming with High Magnesium v. High Calcium Limes. By B.L. Hartwell. (Rhode Island Sta. Bul. 186, pp. 19.)
- Thirty-third Annual Report, 1920. (Texas Sta. Rpt. 1920, pp. 80, figs. 36.)
- Eccentric Growth and the Formation of Redwood in the Main Stem of Conifers. By G.P. Burns. (Vermont Sta. Bul. 219, pp. 16, pls. 4, figs. 10.)
- Sugar Cane in St. Croix. By L. Smith. (Virgin Islands Sta. Bul. 2, pp. 23, pls. 2, fig. 1.)
- Breeding Mosaic Resistant Spinach and Notes on Malnutrition. By L.B. Smith. (Virginia Truck Sta. Buls? 31, 32, pp. 135-160, figs. 5.)
- Bi-monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Bi-mo. Bul. 9(1921), No. 4, pp. 49-64, figs. 6.)





UNITED STATES DEPARTMENT OF AGRICULTURE  
STATES RELATIONS SERVICE  
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LIST OF STATION PUBLICATIONS  
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Some Factors Affecting the Quality of Ripe Olives Sterilized at High Temperatures. By W.V. Cruess. (California Sta. Bul. 333, pp. 221-231, figs. 2.)

Titanium, Barium, Strontium, and Lithium in Certain Plants. By W.P. Headden. (Colorado Sta. Bul. 267, pp. 20.)

Codling Moth Control for Certain Sections of Colorado. By G.M. List and J. H. Newton. (Colorado Sta. Bul. 268, pp. 51, figs. 12.)

A Method for Determining Adulterants in Butterfat. By G. Spitzer and W.F. Epple. (Indiana Sta. Bul. 254, pp. 3-16, fig. 1.)

Cattle Feeding, XVII.--Winter Steer Feeding, 1920-21. (Indiana Sta. Bul. 255 (pop. ed.), pp. 8, fig. 1.)

Sheep Feeding, X.--Fattening Western Lambs, 1919-20, 1920-21. (Indiana Sta. Bul. 256 (pop. ed.), pp. 8, figs. 2.)

Comparative Resistance of Varieties of Oats to Crown and Stem Rusts. By L.W. Durrell and J.H. Parker. (Iowa Sta. Res. Bul. 62, pp. 25-56 ÷ [4], figs. 13.)

Volatile Acid Production of S. lacticus and the Organisms Associated with It in Starters. By B.W. Hammer. (Iowa Sta. Res. Bul. 63, pp. 59-96 ÷ [5].)

Fertilizers for Alfalfa in Eastern Kansas. By L.E. Call, R.I. Throckmorton, C.C. Cunningham, and B.S. Wilson. (Kansas Sta. Bul. 226, pp. 5-30, figs. 3.)

Soy Beans. By E.J. Kinney and G. Roberts. (Kentucky Sta. Bul. 232, pp. 25-58, fig. 1.)

A Comparison of Corn Silage and Sorghum Silage for Fattening Steers. By E.S. Good, L.J. Horlacher, and J.C. Grimes. (Kentucky Sta. Bul. 233, pp. 61-89, figs. 8.)

A Destructive Bud-worm of Apple Trees (Haploa lecontei). By H. Gaman. (Kentucky Sta. Circ. 25, pp. 3-11, figs. 5.)

- Studies in Milk Secretion, IX.--On the Performance of the Progeny of Holstein-Friesian Sires. By J.W. Gowen and M.R. Covell. (Maine Sta. Bul. 300, pp. 121-252, figs. 2.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 393, pp. 4.)
- Commercial Feeding Stuffs. By A.J. Patten, O.B. Winter, M.L. Grettenberger, and P. O'Meara. (Michigan Sta. Reg. Bul. 292, pp. 63.)
- The Robust Bean. By F.A. Sprague and E.E. Down. (Michigan Sta. Spec. Bul. 108, pp. 11, figs. 5.)
- Studies in Animal Nutrition, 1.--Changes in Form and Weight on Different Planes of Nutrition. By C.R. Moulton, P.F. Trowbridge, and L.D. Haigh. (Missouri Sta. Res. Bul. 43, pp. 3-111, pl. 1, figs. 30.)
- Grapes. By F.W. Faurot. (Missouri Sta. Circ. 20, pp. 28, figs. 12.)
- Quality in Sunflower Silage. By M.J. Blish. (Montana Sta. Circ. 96, pp. 7.)
- How to Candle Eggs. By W.F. Schoppe. (Montana Sta. Circ. 97, pp. 19, figs. 2.)
- Report of the New Hampshire Agricultural Experiment Station for the Biennium Ending June 30, 1920. (New Hampshire Sta. Bul. 198, pp. 3-22.)
- Digging Up Facts for New Hampshire Farms. (New Hampshire Sta. Bul. 199, pp. 30, figs. 21.)
- The Effects of Shading Some Horticultural Plants. By J.H. Courley and G.T. Nightingale. (New Hampshire Sta. Tech. Bul. 18, pp. 3-22, figs. 19.)
- Common Weeds and Their Control. By J.G. Fiske. (New Jersey Stas. Circ. 125, pp. 19, figs. 14.)
- Paradichlorobenzene (p-c-benzene) For Controlling the Peach Tree Borer. By A. Peterson. (New Jersey Stas. Circ. 126, pp. 11, figs. 7.)
- Poultry House Equipment. By W.H. Allen. (New Jersey Stas. Hints to Poultrymen, 10(1921), No. 1, pp. 4, fig. 1.)
- The Culture and Feeding of Russian Sunflowers. By G.R. Quesenberry, O.C. Cunningham, and L. Foster. (New Mexico Sta. Bul. 126, pp. 20, figs. 6.)
- Egg-laying Characteristics of the Hen. By J. Dryden. (Oregon Sta. Bul. 180, pp. 96, figs. 26.)
- Growing Steers. By E.L. Potter and R. Withycombe. (Oregon Sta. Bul. 182, pp. 15, fig. 1.)
- Shelter and Warm Water for Fattening Steers. By E.L. Potter and R. Withycombe. (Oregon Sta. Bul. 183, pp. 11, figs. 6.)



Silage for Fattening Lambs. By R. Withycombe and E.L. Potter. (Oregon Sta. Bul. 184, pp. 7, figs. 4.)

Planting Rates and Spacing of Corn with Tables for Practical Use. By C.A. Mooers. (Tennessee Sta. Bul. 124, pp. 31-43.)

Stocker Cattle Problems on the Cumberland Plateau. By C.A. Willson. (Tennessee Sta. Bul. 125, pp. 45-62, figs. 2.)

Commercial Fertilizers in 1920-21. By G.S. Fraps and S.E. Asbury. (Texas Sta. Bul. 280, pp. 3-22.)

The Larger Corn Stalk-borer in Virginia. By W.J. Phillips, G.W. Underhill, and F.W. Poos. (Virginia Sta. Tech. Bul. 22, pp. 3-30, figs. 13.)

Truck Crop Investigations.--Relation of Pressure to Effectiveness in Spraying Tomatoes. By L.B. Smith and H.H. Zimmerley. (Virginia Truck Sta. Buls. 33, 34, pp. 163-190, figs. 10.)

Investigations in Dry Farm Tillage. By M.A. McCall and H.F. Holtz. (Washington Sta. Bul. 164, pp. 51 ÷ [5], figs. 12.)

French Creek as a Rural Community. A.J. Dadisman. (West Virginia Sta. Bul. 176 pp. 23, figs. 27.)

Judging Dairy Cattle. By G.C. Humphrey. (Wisconsin Sta. Bul. 335, pp. 44, figs. 23.)

Pump Drainage of the University of Wisconsin Marsh. By G.R.B. Elliott, E.R. Jones, and O.R. Zeasnar. (Wisconsin Sta. Res. Bul. 50, pp. 32, figs. 15.)





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Walnut Culture in California. By L. D. Batchelor. (California Sta. Bul. 332, pp. 139-218, figs. 33.)

Plant Disease and Pest Control. By W. T. Horne and E. O. Essig. (California Circ. 227, pp. 69.)

The Grass-feeding Frog-hopper or Spittle-bug. By P. Garman. (Connecticut State Sta. Bul. 230, pp. 325-334, pls. 2, figs. 3.)

Report of the Tree Protection Examining Board. By W. E. Britton. (Connecticut State Sta. Bul. 231, pp. 337-356.)

Corn Root Rot Diseases. By T. F. Marns and J. F. Adams. (Delaware Sta. Bul. 128, pp. 24, figs. 15.)

Field Peas for Pork Production. By R. E. Gongwer. (Idaho Sta. Bul. 125, pp. 8, fig. 1.)

Annual Report, 1920. (Iowa Sta. Rpt. 1920, pp. 64.)

Director's Report, 1920. (Kansas Sta. Rpt. 1920, pp. 99.)

Thirty-second Annual Report, 1919. (Kentucky Sta. Rpt. 1919, Part II, pp. 372 + 29-38 + III, pls. 4, figs. 12.)

Onion Diseases and Onion Seed Production. By C. W. Edgerton. (Louisiana Sta. Bul. 182, pp. 20, figs. 9.)

Preliminary Notes on Parasites Found in Ruminants at Municipal Abattoir, Baton Rouge, Louisiana. By G. Dikmans. (Louisiana Sta. Tech. Bul. 183, pp. 13, figs. 12.)

Work of the Seed Inspection Laboratory for the Year 1920. By F. S. Holmes. (Maryland Sta. Bul. 243, pp. 167-186.)

Thirty-third Annual Report, 1920. (Massachusetts Sta. Pub. Doc. 31, parts I, II, pp. 6Ca + 144, pl. 1, figs. 14.)

Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J. E. Ostrander and G. E. Lindskog. (Massachusetts Sta. Met. Bul. 394, pp. 4.)

Thirty-third Annual Report, 1919-20. (Michigan Sta. Rpt. 1920, pp. 227-700, figs. 78.)

Local Cooperative Potato Marketing in Minnesota. By J. D. Black, F. Robotka, and P. L. Miller. (Minnesota Sta. Bul. 195, pp. 88, figs. 7.)

Relation of Mosaic to Running-out of Potatoes in Minnesota. F. A. Krantz and G. R. Bisby. (Minnesota Sta. Bul. 197, pp. 31, figs. 20.)

Infectious Abortion in Swine. By J. W. Connaway, A. J. Durant, and H. G. Newman. (Missouri Sta. Bul. 187, pp. 28, figs. 12.)

One Year's Work ( of ) The Agricultural Experiment Station, 1921. (Missouri Sta. Bul. 189, pp. 64, figs. 18.)

The Effect on Growth of Breeding Immature Animals. By F. B. Mumford. (Missouri Sta. Res. Bul. 45, pp. 37, pls. 6.)

Characters Connected With the Yield of the Corn Plant. By W. C. Etheridge. (Missouri Sta. Res. Bul. 46, pp. 17, fig. 1.)

Localization of the Factors Determining Fruit and Formation. By H. D. Hooker, Jr. and F. C. Bradford. (Missouri Sta. Res. Bul. 47, pp. 19.)

Biennial Reports of the Missouri State Fruit Experiment Station, 1915-16, 1917-18, 1919-20. (Missouri Fruit Sta. Bien. Rpts. 1916, pp. 7; 1918, pp. 11; 1920, pp. 12, figs. 7.)

Feeding Dairy Cattle. By M. H. Keeney. (New Jersey Stas. Circ. 127, pp. 38, figs. 7.)

Forty-first Annual Report of the New Jersey State Agricultural Experiment Station and the Thirty-third Annual Report of the New Jersey Agricultural College Experiment Station, 1920. (New Jersey Stas. Rpts. 1920, pp. XXXII + 610, pls. 29, figs. 34.)

High-quality Market Eggs: Producing, Handling, Packing. By G. H. Pound. (New Jersey Stas. Hints to Poultrymen, 10(1921), No. 2, pp. 4, fig. 1.)

An Economic Study of Farm Tractors in New York. By W. I. Myers. (New York Cornell Sta. Bul. 405, pp. 51-134, figs. 12.)

Decomposition of Green Manures at Different Stages of Growth. By T. L. Martin. (New York Cornell Sta. Bul. 406, pp. 135-169, figs. 10.)



- The Painted Hickory Borer. By E. H. Dusham. (New York Cornell Sta. Bul. 407, pp. 171-203, figs. 2.)
- Liberation of Organic Matter by Roots of Growing Plants. By T. L. Lyon and J. K. Wilson. (New York Cornell Sta. Mem. 40, pp. 44, figs. 9.)
- Lysimeter Experiments, II.--Records for Tanks 13 to 16 During the Years 1913 to 1917, Inclusive. By T. L. Lyon and J. A. Bizzell. (New York Cornell Sta. Mem. 41, pp. 45-93.)
- Variations in Bacteria Counts from Milk as Affected by Media and Incubation Temperature. By G. C. Supplee, W. A. Whiting, and P. A. Downs. (New York Cornell Sta. Mem. 43, pp. 217-247.)
- Monthly Bulletin of the Ohio Agricultural Experiment Station. (Ohio Sta. Mo. Bul. 6(1921), Nos. 9, 10, pp. 129-160, figs. 9.)
- Hood River Apple Orchard Management with Special Reference to Yields, Grades, and Value of Fruits. By G. G. Brown. (Oregon Sta. (Hood River Branch Station) Bul. 181, pp. 36, figs. 7.)
- Preliminary Report on the Management of Willametta Valley Soils. (Oregon Sta. Bul. 185, pp. 12, fig. 1.)
- Mosquito Survey of Mayaguez. By W. V. Tower. (Porto Rico Sta. Circ. 20, pp. 10, pls. 4.)
- Inspection of Commercial Fertilizers. By P. H. Wessels. (Rhode Island Sta. Annual Fert. Circ., 1921, pp. 12.)
- Thirty-third Annual Report of the Director of the Agricultural Experiment Station, 1920. (Rhode Island Sta. Rpt. 1920, pp. 15.)
- Analyses of Commercial Fertilizers. By R. N. Brackett and H. M. Stackhouse. (South Carolina Sta. Bul. 208, pp. 48.)
- Yield and Quality in Hubbard Squash. By M. B. Cummings and W. C. Stone. (Vermont Sta. Bul. 222, pp. 48, pls. 2, figs. 7.)
- Bi-monthly Bulletin of the Western Washington Experiment Station, Puyallup, Wash. (Washington Sta., West. Wash. Sta. Bimo. 9(1921), No. 5, pp. 65-80.)
- Farm Poultry Buildings. By J. G. Halpin, J. B. Hayes, and O. R. Zeasman. (Wisconsin Sta. Bul. 336, pp. 31, figs. 18.)



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- Phylloxera-resistant Stocks. By F.T. Bioletti, F.C.H. Flossfeder, and A.E. Way. (California Sta. Bul. 331, pp. 79-139, figs. 11.)
- Preliminary Volume Tables for Second-growth Redwood. By D. Bruce. (California Sta. Bul. 334, pp. 235-237.)
- Coconut Meal as a Feed for Dairy Cows and Other Live Stock. By F. W. Well. California Sta. Bul. 335, pp. 241-258.)
- The Preparation of Nicotine Dust as an Insecticide. By R.E. Smith. (California Sta. Bul. 336, pp. 261-274.)
- Some Factors of Dehydrater Efficiency. By W.V. Cruess and A. W. Christie. (California Sta. Bul. 337, pp. 277-298, figs. 8.)
- Selection and Treatment of Waters for Spraying Purposes with Especial Reference to Santa Clara Valley. By E.R. DeOng. (California Sta. Bul. 338, pp. 301-314, figs. 2.)
- Gordon Pruning. By F.T. Bioletti. (California Sta. Circ. 229, pp. 14, figs. 9.)
- Testing Milk, Cream, and Skim Milk for Butterfat. By J.C. Marquardt. (California Sta. Circ. 230, pp. 11, figs. 7.)
- The Home Vineyard. By L.O. Bonnet. (California Sta. Circ. 231, pp. 12, figs. 4.)
- Para and Paspalum: Two Introduced Grasses of Guam. By G. Briggs. (Guam Sta. Bul. 1, pp. 3-44, pls. 6.)
- Report of the Guam Agricultural Experiment Station, 1920. (Guam Sta. Rpt. 1920, pp. 5-79, pls. 8.)
- A Graphical Presentation of the Financial Phases of Feeding Experiments. By H.H. Mitchell. (Illinois Sta. Bul. 234, pp. 271-327, pl. 1, figs. 15.)
- Feeding Pure-bred Draft Fillies. By J.J. Edmonds and W.G. Kammlade. (Illinois Sta. Bul. 235, pp. 329-360, figs. 9.)
- Germin Content of Milk, III.--As Influenced by Visible Dirt. By H.A. Harding and M.J. Prucha. (Illinois Sta. Bul. 236, pp. 363-391, fig. 1.)



- The Heavy Feeding of Milk Cows is Now Profitable. By H.A. Ross. (Illinois Sts. Circ. 250, pp. 2.)
- Peoria County Soils. By J.G. Mosier, S.V. Holt, E. Van Alstine, and F.W. Garrett. Illinois Sta. Soil Rpt. 19, pp. [1] + 57, pls. 2, figs. 8.)
- The Pigeon Pea (Cajanus indicus): Its Culture and Utilization in Hawaii. By F.G. Krauss. (Hawaii Sta. Bul. 46, pp. 3-23, pls. 5, fig. 1.)
- Report of the Hawaii Agricultural Experiment Station, 1920. By J.M. Westgate. (Hawaii Sta. Rpt. 1920, pp. 9-72, pls. 10, figs. 2.)
- Feeding Experiments with Laying Pullets. By A.G. Philips. (Indiana Sta. Bul. 258, pp. 28, figs. 9.)
- Swine dysentery. By R.A. Whiting, L.P. Doyle, and R.S. Spray. (Indiana Sta. Bul. 257, pp. 15, figs. 10.)
- Handy Equipment for Swine Raising. By W.G. Kaiser and J.M. Evvard. (Iowa Sta. Circ. 69, pp. 47, figs. 43.)
- Dressing and Cutting Lamb and Mutton on the Farm. By M.D. Helser. (Iowa Sta. Circ. 71, pp. 16, figs. 25.)
- Dressing and Cutting Beef on the Farm. By M.D. Helser. (Iowa Sta. Circ. 72, pp. 23, figs. 30.)
- Cattle Feeding Investigations, 1920-21. Part 1, The Maximum Economical Utilization of Silage in Fattening Baby Beef. By C. W. McCampbell and H.B. Winchester. (Kansas Sta. Circ. 92, pp. 13, figs. 3.)
- Analyses of Commercial Fertilizers. By H.E. Curtis, H.R. Allen, and R.H. Ridgell. (Kentucky Sta. Bul. 230, pp. 193-320.)
- Studies of Dairy Cattle. By J.J. Hooper. (Kentucky Sta. Res. Bul. 234, pp. 91-161, figs. 24.)
- A Comparison of Broken Ear Corn and Shelled Corn, Fed with Silage, for Fattening Steers. By E.S. Good and L.J. Horlacher. (Kentucky Sta. Circ. 26, pp. 15-26, figs. 2.)
- The Strawberry Crown-borer (Tyloderma fragariae). By H. Garman. (Kentucky Sta. Circ. 27, pp. 27-34, figs. 2.)
- Thirty-third Annual Report, Part I.--Report of the Director. Meteorological Observations. 1920. (Kentucky Sta. Rpt. 1920, pp. 49.)
- The Comparative Value of Different Forms of Lime. By A.G. McCall. (Maryland Sta. Bul. 242, pp. 157-166, fig. 1.)
- Meteorological Observations at the Massachusetts Agricultural Experiment Station. By J.E. Ostrander and G.E. Lindskog. (Massachusetts Sta. Met. Bul. 395, pp. 4.)
- Poisoning from *Bacillus botulinus*. Cause: Prevention: Treatment. By Z.N. Wyant. (Michigan Sta. Circ. Bul. 47, pp. 3-8.)

- North America Ipidae of the subfamily Micracinae, with Descriptions of New Species and Genera. By M.W. Blackman. (Mississippi Sta. Tech. Bul. 9, pp. 3-82, pls.4.)
- Description of Eight New Bark Beetles (Ipidae) from Mississippi. By M.W. Blackman. (Mississippi Sta. Tech. Bul. 10, pp. 16, figs. 2.)
- Methods of Mating Poultry. By L.S. Dodson. (New Jersey Stas. Hints to Poultrymen, 10(1921), No. 3, pp. 4, fig. 1.)
- Apple Blister Canker and Its Control. By W.O. Gloyer and J.D. Lockett. (New York State Sta. Pop. Bul. 485, pp. 12, figs. 8.)
- Plant Lice Injurious to Apple Orchards: III, The Delayed Dormant Spray for the Control of Rosy and Green Apple Aphids. By F.Z. Hartzell, and L.F. Strickland. (New York Sta. Bul. 487, pp. 41, figs. 5.)
- An Investigation of the Seed of the Silver Maple (Acer saccharinum). By R.J. Anderson and W.L. Kuip. (New York State Sta. Tech. Bul. 81, pp. 20.)
- The Use of Various Culture Media in Characterizing Actinomycetes. By H.J. Conn. (New York State Sta. Tech. Bul. 83, pp. 3-26.)
- The Use of Agar Slants in Detecting Fermentation; Rose Bengal as a General Bacterial Stain; and A Modification and New Application of the Gram Stain. By H.J. Conn and G.J. Hucker. (New York State Sta. Tech. Bul. 84, pp. 9.)
- Composition of Some Soils from the Chautauqua County Grape Belt. By R.C. Collison. (New York State Sta. Tech. Bul. 85, pp. 15, fig. 1.)
- The Microscopic Study of Bacteria in Cheese. By G.J. Hucker. (New York State Sta. Tech. Bul. 87, pp. 3-11, pl. 1.)
- Wintering and Summer Fattening of Steers in North Carolina. By R.S. Curtis, F.T. Peden, and F.W. Farley. (North Carolina Sta. Bul. 243, pp. 3-20, figs. 4.)
- Farmers' Market Bulletin. (North Carolina Sta. Farmers' Market Bul. 8(1921), No.46, pp. 8.)
- Some Physical and Chemical Studies of Certain Clones and Sibs of Bromo-grass. By L.R. Waldron. (North Dakota Sta. Res. Bul. 152, pp. 3-28, pls. 3, figs. 3.)
- Physical Characters and some of Their Correlations in Bromus inermis. By L.R. Waldron. (North Dakota Sta. Res. Bul. 153, pp. 3-31, figs. 5.)
- The Trail of the Short Grass Steer.--The Story of a Great Plains Grazing Trail. By J.H. Shepperd. (North Dakota Sta. Bul. 154, pp. 8, figs. 8.)
- Solvent Action of Nitrification and Sulfification. By J.W. Ames. (Ohio Sta. Bul. 351, pp. 223-257.)
- La Crianza de Aves en Puerto Rico. By H.C. Hendricksen. (Porto Rico Sta. Circ. 19, pp. 3-22, figs. 14.)
- The Coffee Leaf Spot (Stilbella flava). in Porto Rico. By T.B. McClelland. (Porto Rico Sta. Bul. 28, pp. 3-12, pls. 4.)



Thirty-fourth Annual Report, 1921. (South Carolina Sta. Rpt. 1921. pp.55, figs.19.)

An Investigation of Sulphur as a Plant Food. By G.A. Olsen and J.L. St. John.  
(Washington Sta. Tech. Bul. 165, pp. 69, figs. 11.)

Tobacco in Wisconsin. By J. Johnson and C.M. Slagg. (Wisconsin Sta. Bul. 337,  
pp. 36, figs. 21.)

